

PROPERTIES for more information. See STN Note 27, Searching Properties in the CAS Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

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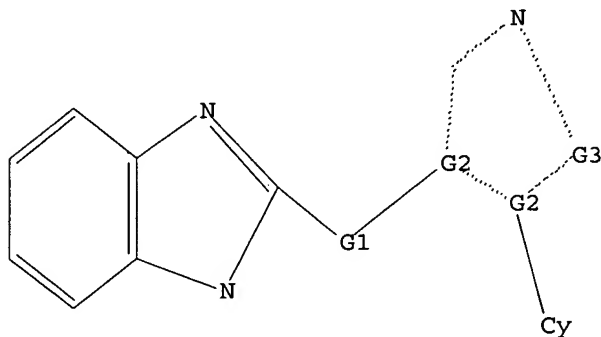
Uploading 10038069.str

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR



G1 CH2,CH,C,O

G2 C,N,CH

G3 C,O,N,CH2,CH

Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 09:40:45 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 5307 TO ITERATE

18.8% PROCESSED 1000 ITERATIONS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

0 ANSWERS

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**

PROJECTED ITERATIONS: 101774 TO 110506
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s l1 sss full

FULL SEARCH INITIATED 09:40:55 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 106038 TO ITERATE

100.0% PROCESSED 106038 ITERATIONS
SEARCH TIME: 00.00.04

10 ANSWERS

L3 10 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

148.15

148.36

FILE 'CAPLUS' ENTERED AT 09:41:08 ON 11 MAR 2003

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FILE COVERS 1907 - 11 Mar 2003 VOL 138 ISS 11

FILE LAST UPDATED: 10 Mar 2003 (20030310/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l3

L4 3 L3

=> d 1-3

L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2003 ACS

AN 2002:556140 CAPLUS

DN 137:125159

TI Preparation and antiviral activity of heterocyclic substituted 2-methylbenzimidazole antiviral agents

IN Yu, Kuo-Long; Civiello, Rita L.; Combrink, Keith D.; Gulgeze, Hatice Belgin; Sin, Ny; Wang, Xiangdong; Meanwell, Nicholas; Venables, Brian Lee; Zhang, Yi; Pearce, Bradley C.; Yin, Zhiwei; Thuring, Jan Willem

PA USA

SO U.S. Pat. Appl. Publ., 89 pp.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2002099208	A1	20020725	US 2001-994012	20011116
	WO 2002062290	A2	20020815	WO 2001-US45149	20011120
	WO 2002062290	A3	20021121		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,

BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
PRAI US 2000-257139P P 20001220
OS MARPAT 137:125159

L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2003 ACS

AN 2002:487553 CAPLUS

DN 137:47200

TI Aryl or heteroaryl fused imidazoles as selective GABAA receptor ligands

IN Li, Guiying; Peterson, John M.; Albaugh, Pamela; Currie, Kevin S.; Cai, Guolin; Gustavson, Linda M.; Lee, Kyungae; Hutchison, Alan; Singh, Vinod; Maynard, George D.; Yuan, Jun; Ling, Hong Xie; Ghosh, Manuka; Liu, Nian; Luke, George P.; Mitchell, Scott; Allen, Martin Patrick; Liras, Spiros

PA Neurogen Corporation, USA; Pfizer Inc.

SO PCT Int. Appl., 309 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002050062	A2	20020627	WO 2001-US50038	20011221
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	AU 2002032768	A5	20020701	AU 2002-32768	20011221
PRAI	US 2000-257492P	P	20001221		
	WO 2001-US50038	W	20011221		
OS	MARPAT 137:47200				

L4 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2003 ACS

AN 1992:128783 CAPLUS

DN 116:128783

TI Stable, 2-unsubstituted imidazole-3-oxides

AU Hossbach, Rosemarie; Lettau, H.; Nuhn, P.; Schneider, R.; Stenger, P.; Stiebitz, Beate

CS Sekt. Pharm., Martin-Luther-Univ. Halle-Wittenberg, Halle/Saale, O-4020, Germany

SO Pharmazie (1991), 46(6), 412-15

CODEN: PHARAT; ISSN: 0031-7144

DT Journal

LA German

OS CASREACT 116:128783

=> d ibib abs hitstr 1

L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:556140 CAPLUS

DOCUMENT NUMBER: 137:125159

TITLE: Preparation and antiviral activity of heterocyclic substituted 2-methylbenzimidazole antiviral agents

INVENTOR(S): Yu, Kuo-Long; Civiello, Rita L.; Combrink, Keith D.;

Gulgeze, Hatice Belgin; Sin, Ny; Wang, Xiangdong;
 Meanwell, Nicholas; Venables, Brian Lee; Zhang, Yi;
 Pearce, Bradley C.; Yin, Zhiwei; Thuring, Jan Willem
 PATENT ASSIGNEE(S): USA
 SOURCE: U.S. Pat. Appl. Publ., 89 pp.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

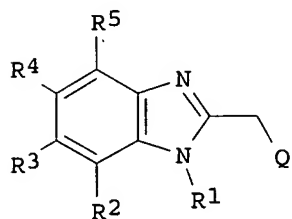
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2002099208	A1	20020725	US 2001-994012	20011116
WO 2002062290	A2	20020815	WO 2001-US45149	20011120
WO 2002062290	A3	20021121		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
 CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
 GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
 LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL,
 PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG,
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 CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,
 BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

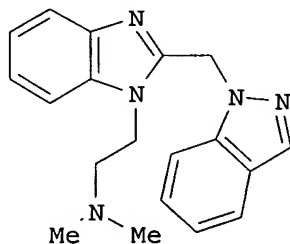
PRIORITY APPLN. INFO.: US 2000-257139P P 20001220

OTHER SOURCE(S): MARPAT 137:125159

GI



I



II

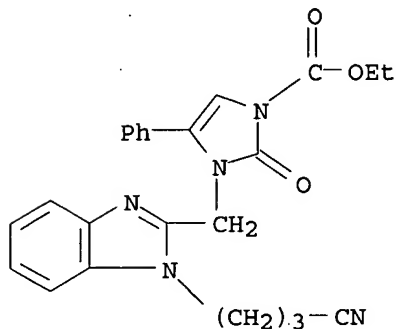
AB The title compds. [I; R1 = (CRaRb)_nX; Ra, Rb = independently H, C1-6 (un)substituted alkyl; X = H, C1-6 (un)substituted alkyl; n = 1-6; R2, R5 = independently H or halogen; R3, R4 = independently H, halogen, C1-6 (un)substituted alkyl; Q = heterocyclic group], useful in the treatment of viral infections, more particularly, for the treatment of respiratory syncytial virus infection, were prepd. E.g., a four-step synthesis of II, starting with 2-(chloromethyl)benzimidazole, was given. The antiviral activity of these compds. against respiratory syncytial virus (RSV) was detd. in HEP-2 (ATCC CCL 23) cells. The title compds. I, disclosed herein, show antiviral activity with EC50s between 50 .mu.M and 0.001 .mu.M.

IT 443987-53-9P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 (prepn. and use of heterocyclic substituted 2-methyl-benzimidazole antiviral agents)

RN 443987-53-9 CAPLUS

CN 1H-Imidazole-1-carboxylic acid, 3-[[1-(3-cyanopropyl)-1H-benzimidazol-2-yl)methyl]-2,3-dihydro-2-oxo-4-phenyl-, ethyl ester (9CI) (CA INDEX NAME)



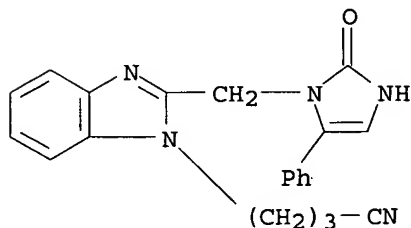
IT 443986-62-7P 443987-54-0P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. and use of heterocyclic substituted 2-methyl-benzimidazole antiviral agents)

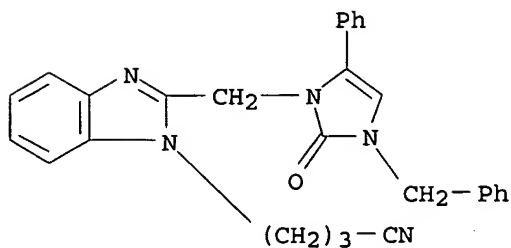
RN 443986-62-7 CAPLUS

CN 1H-Benzimidazole-1-butanenitrile, 2-[[2,3-dihydro-2-oxo-5-phenyl-1H-imidazol-1-yl)methyl]- (9CI) (CA INDEX NAME)



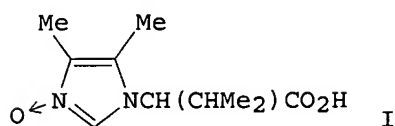
RN 443987-54-0 CAPLUS

CN 1H-Benzimidazole-1-butanenitrile, 2-[[2,3-dihydro-2-oxo-5-phenyl-3-(phenylmethyl)-1H-imidazol-1-yl)methyl]- (9CI) (CA INDEX NAME)



=> d ibib abs hitstr 3

L4 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 1992:128783 CAPLUS
 DOCUMENT NUMBER: 116:128783
 TITLE: Stable, 2-unsubstituted imidazole-3-oxides
 AUTHOR(S): Hossbach, Rosemarie; Lettau, H.; Nuhn, P.; Schneider, R.; Stenger, P.; Stiebitz, Beate
 CORPORATE SOURCE: Sekt. Pharm., Martin-Luther-Univ. Halle-Wittenberg, Halle/Saale, O-4020, Germany
 SOURCE: Pharmazie (1991), 46(6), 412-15
 CODEN: PHARAT; ISSN: 0031-7144
 DOCUMENT TYPE: Journal
 LANGUAGE: German
 OTHER SOURCE(S): CASREACT 116:128783
 GI



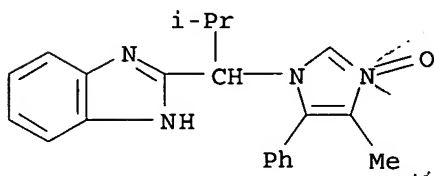
AB Condensation reaction of .alpha.-diketone monoximes with HCHO in the presence of amino acids in H₂O-EtOH gave 1-carboxyalkyl(aryl)imidazole oxides e.g. I. Cyclocondensation of 4-HO₂CC₆H₄NHCOC(:NOH)COCH₂ with primary amines in the presence of HCHO in H₂O-EtOH also gave 63-89% 4-(4-carboxyphenylaminocarbonyl)-5-methylimidazole 3-oxides. Similarly reaction of 2-hydroxyimino-3-oxobutanoic acid anilides with HCHO and primary amines gave 55-98% 1-alkyl(aryl)-4-arylamino carbonyl-5-methylimidazole 3-oxides. Benzimidazole 3-oxides and naphth[2,3-d]imidazole 3-oxides were also prepd. for 5-chloro-1,2-benzoquinone 2-oxime and 1,2-naphthoquinone 1-oxime resp. Cyclization of carboxylic group of prepd. compds. with 2-H₂NC₆H₄NH₂ in HCl gave 1-.alpha.-(benzimidazol-2-yl)ethyl-4,5-dimethylimidazole 3-oxides.

IT 139326-01-5P 139326-02-6P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)

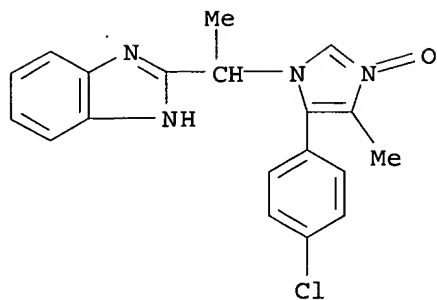
RN 139326-01-5 CAPLUS

CN 1H-Benzimidazole, 2-[2-methyl-1-(4-methyl-3-oxido-5-phenyl-1H-imidazol-1-yl)propyl]- (9CI) (CA INDEX NAME)



RN 139326-02-6 CAPLUS

CN 1H-Benzimidazole, 2-[1-[5-(4-chlorophenyl)-4-methyl-3-oxido-1H-imidazol-1-yl]ethyl]- (9CI) (CA INDEX NAME)



=> log y

COST IN U.S. DOLLARS

SINCE FILE
ENTRY

TOTAL
SESSION

FULL ESTIMATED COST

14.18

162.54

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE
ENTRY

TOTAL
SESSION

CA SUBSCRIBER PRICE

-1.30

-1.30

STN INTERNATIONAL LOGOFF AT 09:44:15 ON 11 MAR 2003